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Revision Number 3

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

Product Name Isoamyl Alcohol
Product Code(s) 0944
Recommended Use For Further Manufacturing Use Only
Not for Human or Animal Drug Use
Synonyms ALCOOL AMILICO (ITALIAN) * ALCOOL ISOAMYLIQUE (FRENCH) * AMYLOWY ALKOHOL (POLISH) * FERMENTATION AMYL ALCOHOL * ISOAMYL ALCOHOL (ACGIH)* ISOAMYL ALCOHOL, PRIMARY (OSHA) * ISOAMYL ALCOHOL (CZECH) * ISO-AMYLALKOHOL (GERMAN) * ISOAMYLOL * ISOBUTYLCARBINOL * ISOPENTANOL *ISOPENTYL ALCOHOL * 2-METHYL-4-BUTANOL * 3-METHYL BUTANOL * 3-METHYLBUTAN-1-OL * 3-METHYL-1-BUTANOL * 3-METIL-BUTANOLO (ITALIAN) *

Company
AMRESKO, LLC
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Solon, Ohio 44139

Emergency Telephone Number Chemtrec 1-800-424-9300
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2. HAZARDS IDENTIFICATION

GHS - Classification

Classification Skin Irritant 2 Serious Eye Damage/Irritant 2A Flammable Liquid 3
Signal Word Warning



Hazard Statements H226 - Flammable liquid and vapor H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation

Precautionary Statements P280 - Wear protective gloves/protective clothing/eye protection/face protection
P302+ P352 - IF ON SKIN: Wash with plenty of soap and water P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	EC No.	REACH Reg. No.	CAS-No	Weight %	Classification
Isoamyl alcohol	EEC No. 204-633-5	Not available	123-51-3	95-100	-

4. FIRST AID MEASURES

Eye Contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician

Skin Contact Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes

Inhalation Move to fresh air. If breathing becomes difficult, give oxygen

Ingestion Clean mouth with water and afterwards drink plenty of water

Notes to Physician Treat symptomatically

5. FIRE-FIGHTING MEASURES

Flammable Properties Flammable liquid.

Flash Point 43 °C

Suitable Extinguishing Media Dry chemical, CO2, water spray or regular foam

Hazardous Combustion Products Carbon oxides

Explosion Data

Sensitivity to Mechanical Impact	Not sensitive
Sensitivity to Static Discharge	Not sensitive

Specific Hazards Arising from the Chemical
Vapor may travel considerable distance to source of ignition and flash back
. In the event of fire and/or explosion do not breathe fumes.

Protective Equipment and Precautions for Firefighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Evacuate personnel to safe areas. Avoid contact with the skin and the eyes. Use personal protective equipment. Ensure adequate ventilation.

Methods for Containment Prevent further leakage or spillage if safe to do so

Methods for Cleaning Up Cover with dry lime or soda ash. Keep in suitable and closed containers for disposal. Wash spill site with soap solution and flush area with copious amounts of water.

7. HANDLING AND STORAGE

Handling Handle in accordance with good industrial hygiene and safety practice.

Storage Keep container tightly closed in a dry and well-ventilated place. Keep away from sources of ignition-no smoking.

Incompatible Products Strong oxidizing agents. Acid chlorides. Acid Anhydrides.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Isoamyl alcohol 123-51-3	= 125 ppm STEL TWA: 100 ppm	TWA: 100 ppm TWA: 360 mg/m ³ (vacated) TWA: 100 ppm (vacated) TWA: 360 mg/m ³ (vacated) STEL: 125 ppm (vacated) STEL: 450 mg/m ³	IDLH: 500 ppm TWA: 100 ppm TWA: 360 mg/m ³ STEL: 125 ppm STEL: 450 mg/m ³

Engineering Measures Showers
 Eyewash stations
 Ventilation systems

Personal Protective Equipment

Eye/Face Protection Tightly fitting safety goggles
Skin and Body Protection Wear protective gloves/clothing
Respiratory Protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear
Odor	No information available
Odor Threshold	No information available
Decomposition Temperature °C	No information available
Freezing Point	No information available
Initial Boiling Point	No information available
Physical State	Liquid
pH	No data available
Flash Point	43 °C
Flammable Properties	Flammable liquid.
Autoignition Temperature	339 °C
Boiling Point/Range	130 °C
Melting Point/Range	-117 °C
Flammability Limits in Air	Upper 9% Lower 1.2%
Explosive Properties	No information available
Oxidizing Properties	No information available
Evaporation Rate	No data available
MMHG @ 37.8 C	No data available
Vapor Density	No data available
Specific Gravity	No data available
Solubility	No information available
Partition Coefficient (n-octanol/water)	No data available
Viscosity	No information available
Molecular Weight	88.15

10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions
Incompatible Products	Strong oxidizing agents. Acid chlorides. Acid Anhydrides.
Conditions to Avoid	None known based on information supplied
Hazardous Decomposition Products	Carbon oxides
Hazardous Polymerization	Hazardous polymerization does not occur

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information	May cause irritation to eyes, skin and respiratory system . Harmful if swallowed, inhaled, or absorbed through skin
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Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Isoamyl alcohol	1300 mg/kg (Rat)	3970 µL/kg (Rabbit)	

Chronic Toxicity

Chronic Toxicity No known effect based on information supplied

Target Organ Effects Liver, Kidneys, Eyes, Skin, Central nervous system (CNS).

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic organisms.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Isoamyl alcohol	EC50 = 181 mg/L 96 h EC50 = 493 mg/L 72 h	LC50= 700 mg/L Salmo gairdneri 96 h	EC50 = 2500 mg/L 17 h	EC50 = 260 mg/L 48 h

Chemical Name	Log Pow
Isoamyl alcohol	= 1.28

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method Dispose of material in accordance with all federal, state, and local regulations

Contaminated Packaging Dispose of in accordance with all federal, state and local regulations

14. TRANSPORT INFORMATION

IATA

UN-No 1105
Proper Shipping Name PENTANOLS
Hazard Class 3
Packing Group III

DOT

Proper Shipping Name PENTANOLS
Hazard Class 3
UN-No 1105
Packing Group III

15. REGULATORY INFORMATION

REACH Title VII Restrictions No information available.

Chemical Name	Dangerous Substances	Organic Solvents	Harmful Substances Whose Names Are to be Indicated on the Label	Pollution Release and Transfer Registry (Class II):	Pollution Release and Transfer Registry (Class I):	Poison and Deleterious Substances Control Law:
Isoamyl alcohol	X	Class 2	X	Not applicable	Not applicable	Not applicable

Component	ISHA - Harmful Substances Prohibited for Manufacturing, Importing, Transferring, or Supplying	ISHA - Harmful Substances Requiring Permission	Toxic Chemical Classification Listing (TCCL) - Toxic Chemicals	Toxic Release Inventory (TRI) - Group I	Toxic Release Inventory (TRI) - Group II
Isoamyl alcohol 123-51-3 (95-100)	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

International Inventories

TSCA	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990

CERCLA

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Isoamyl alcohol	X	X	X		X

International Regulations

Mexico - Grade

Chemical Name	Carcinogen Status	Exposure Limits
Isoamyl alcohol		Mexico: TWA= 360 mg/m ³ Mexico: TWA= 100 ppm Mexico: STEL= 125 ppm Mexico: STEL= 450 mg/m ³

Canada

WHMIS Hazard Class

B2 Flammable liquid

D2B Toxic materials



16. OTHER INFORMATION

Revision Date 10-May-2011

Revision Note
No information available.

Recommended Restrictions No information available

Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS

